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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/762,956	02/15/2001	Juha Kolmonen	PM276563	1383
909	7590 01/25/2005		EXAMINER	
PILLSBURY WINTHROP, LLP			YUN, EUGENE	
P.O. BOX 10 MCLEAN, \			ART UNIT PAPER NUMBER	
,			2682	

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/762,956	KOLMONEN, JUHA	_
Office Action Summary	Examiner	Art Unit	
	Eugene Yun	2682	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	ith the correspondence address	S
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1  - after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili  - earned patent term adjustment. See 37 CFR 1.704(b).		reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).	ication.
Status			
1) Responsive to communication(s) filed on	<u></u> ,		
2a)⊠ This action is <b>FINAL</b> . 2b)□ Th	is action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	<u>.</u>		rits is
Disposition of Claims			
4) ☐ Claim(s) 1,2,5-13 and 16-23 is/are pending in 4a) Of the above claim(s) is/are withdress   5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,5-13 and 16-23 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 15 February 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examination is objected to by the Examination is objected.	are: a)⊠ accepted or b)□ e drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burer * See the attached detailed Office action for a list	nts have been received.  nts have been received in A  iority documents have beer  au (PCT Rule 17.2(a)).	Application No n received in this National Stag	e
Attachment(s)	A) ☐ Interview	Summary (PTO-413)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06)</li> <li>Paper No(s)/Mail Date</li> </ol>	Paper No	(s)/Mail Date Informal Patent Application (PTO-152)	

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 5-13, and 16-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bruhn (US 6,347,081) in view of Komaili et al. (US 2003/0002446).

Referring to Claim 1, Bruhn teaches a transmission method used in a radio system comprising a base transceiver station acting as a transceiver and subscriber terminals acting as transceivers (see fig. 1 where it is known in the art that any system operating in the GSM standard includes a base station transceiver and subscriber terminals acting as transceivers) which are connected to each other by means of a signal propagating through the base transceiver station, which signal contains speech or data which is coded before it is transmitted to the radio path and decoded when it is received from the radio path (see col. 2, lines 30-40), and in which radio system the signal establishing the connection is transmitted in a radio channel formed for each connection (see col. 3, lines 35-42), the method comprising:

Measuring the radio channel (see col. 5, lines 20-29); transmitting a control signal on the basis of the measurement results from a transceiver in DTX mode (see col. 5, lines 50-60) to a transceiver with which the transceiver in DTX mode has formed the radio channel (see col. 6, lines 53-65); transmitting the control signal at a power

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level which is lower than the power level used in transmitting speech or data signals (see col. 5, lines 38-40), and

Updating with the received control signals the operating parameters of the transceiver forming the radio channel to the transceiver in DTX mode (see col. 6, lines 24-29).

Bruhn does not teach that when the coding rate of the speech coder increases, the coding rate of the channel coder decreases, and when the coding rate of the speech coder decreases, the coding rate of the channel coder increases. Komaili teaches that when the coding rate of the speech coder increases, the coding rate of the channel coder decreases, and when the coding rate of the speech coder decreases, the coding rate of the channel coder increases (see paragraph [0012]). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Komaili to said device of Bruhn in order to be able to communicate on the channel having the best possible speech quality.

Claim 12 has similar limitations to Claim 1.

Referring to Claims 2 and 13, Bruhn also teaches coding and decoding parameters which affect the coding and decoding rate of the transceiver (see col. 3, lines 44-50).

Referring to Claims 5 and 16, Bruhn also teaches the control data of the coding of the signal transmitted to the radio path and the control data of the decoding of the signal received from the radio path are updated, whereby the adaptation rate of coding and decoding can be altered (see col. 7, lines 56-60).

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Referring to Claims 6 and 17, Bruhn also teaches filter frames transmitted during DTX, from which the status of the radio channel is measured, and when transmitting the filler frames, the transceiver in DTX mode is prevented from sending a control signal (see col. 5, lines 55-60).

Referring to Claims 7 and 18, Bruhn also teaches the coding and decoding done with an AMR codec whose adaptation to the signal being coded or decoded is controlled with control signals (see col. 2, lines 4-7).

Referring to Claims 8 and 19, Bruhn also teaches that during DTX, SID frames and L2 filler frames are transmitted at the same power level as speech and data signals, and the status of the radio channel is measured from the SID frames and L2 filler frames (see col. 3, lines 66-67 and col. 4, lines 1-9).

Referring to Claim 9, Bruhn also teaches that during DTX, a signal is transmitted, from which the status of the radio channel is measured, and status data of the radio channel is transmitted in a control signal on the basis of the measurement results obtained from the measuring (see col. 4, lines 57-61).

Referring to Claims 10 and 20, Bruhn also teaches that during DTX, signals are transmitted, from which the radio channel is measured, and between the signals used for measuring, a control signal is transmitted in a continuous manner (see col. 2, lines 23-30).

Referring to Claims 11 and 21, Bruhn also teaches that during DTX, signals are transmitted, from which the radio channel is measured, and between the signals used

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for measuring, a control signal is transmitted in a discontinuous manner (see col. 2, lines 23-30).

Referring to Claim 22, Bruhn also teaches that the transceiver in DTX mode is a base transceiver station which transmits a control signal to a transceiver which is a subscriber terminal (see col. 2, lines 23-35).

Referring to Claim 23, Bruhn also teaches that the transceiver in DTX mode is a subscriber terminal which transmits a control signal to a transceiver which is a base transceiver station (see col. 2, lines 23-35).

## Response to Arguments

3. Applicant's arguments with respect to claims 1, 2, 5-13, and 16-23 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Yun whose telephone number is (703) 305-2689. The examiner can normally be reached on 8:30am-5:30pm Alt. Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (703) 308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eugene Yun Examiner Art Unit 2682

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